ASSIGNMENT

COPY OF ASSIGNMENT FOR US PAT NOS. 6,383,978 \$ 6,472,552

WHEREAS, <u>LEONARD EDWARD BOGAN</u>, <u>JR</u>. of 1229 Cowpath Road, <u>Hatfield</u>, <u>PA 19440</u>; (hereafter Assignor(s)"), invented certain new and useful improvements in **PROMOTED MULTI-METAL OXIDE CATALYST**, (hereafter "INVENTION") for which on the date below Assignor executed an application for Letters Patent of the United States of America;

WHEREAS at the time the INVENTION was made, Assignor was under an obligation to assign all right, title and interest in Assignor's INVENTION to ROHM AND HAAS COMPANY, a Delaware corporation having its principal place of business at 100 Independence Mall West, Philadelphia, Pennsylvania, 19106-2399, which wants to formalize the assignment and its ownership of the entire interest in the INVENTION and in any and all applications for patent thereon and in any and all Letters Patent which may be granted thereon;

NOW, THEREFORE, for valuable consideration received by Assignor. receipt and sufficiency of which is hereby acknowledged, Assignor has assigned and by this Assignment does assign to ROHM AND HAAS COMPANY, for the United States of America, its territorial possession, and for all foreign countries, the entire right, title, and interest in and to the INVENTION including the right to apply for patents, or similar protection, including any continuations. divisional, renewal, substitute, reissue or improvement applications, and to claim International Convention priority, in all such foreign countries; Assignor further agrees without further consideration to testify in any proceedings, to execute all papers, execute all divisional, continuing, continuation-in-part, reissue and foreign applications, and make all rightful oaths and declaration relating to the INVENTION, requested by the ROHM AND HAAS COMPANY; and Assignor does hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America and the corresponding official in any foreign country to issue any Letters Patent which may be granted in the United States or foreign country, respectively, to ROHM AND HAAS COMPANY for its sole use and benefit and for its successors and assigns, to the full end of the term or terms for which said Letters Patent may be granted.

Assignor authorizes and requests insertion herein of the Serial Number 09/928,022 and filing date 8/9/01 of said application when officially known.

hereunto affixed its signature(s).	
7/27/01 Date	LEONARD EDWARD BOGAN, JR.
COMMONWEALTH OF PENNSYLVANIA COUNTY OF MONTGOMERY LEONARD EDWARD BOGAN, JR. personal	: : SS. :
acknowledged to me that the execution of the free will and deed of this 27 day of 501	e foregoing instrument is an act of, 2001.
[SEAL]	Omna Marie Dovem Notary Public
	Notarial Seal Anna Marie Devlin, Notary Public Lower Gwynedd Twp., Montgomery County My Commission Expires Mar. 21, 2005 Member, Pennsylvania Association of Notaries

IN TESTIMONY WHEREOF, Assignor intending to be legally bound has

ASSIGNMENT

WHEREAS, LEONARD EDWARD BOGAN, JR. of 1229 Cowpath Road, Hatfield, PA 19440; ALEX PAK of 700 Lower State Road, Building 19, Apt. C4, North Wales, PA 19454 (hereafter Assignor(s)"), invented certain new and useful improvements in HIGH TEMPERATURE MIXING, (hereafter "INVENTION") for which on the date below Assignor executed an application for Letters Patent of the United States of America;

WHEREAS at the time the INVENTION was made, Assignor was under an obligation to assign all right, title and interest in Assignor's INVENTION to ROHM AND HAAS COMPANY, a Delaware corporation having its principal place of business at 100 Independence Mall West, Philadelphia, Pennsylvania, 19106-2399, which wants to formalize the assignment and its ownership of the entire interest in the INVENTION and in any and all applications for patent thereon and in any and all Letters Patent which may be granted thereon;

NOW, THEREFORE, for valuable consideration received by Assignor, receipt and sufficiency of which is hereby acknowledged, Assignor has assigned and by this Assignment does assign to ROHM AND HAAS COMPANY, for the United States of America, its territorial possession, and for all foreign countries, the entire right, title, and interest in and to the INVENTION including the right to apply for patents, or similar protection, including any continuations, divisional, renewal, substitute, reissue or improvement applications, and to claim International Convention priority, in all such foreign countries; Assignor further agrees without further consideration to testify in any proceedings, to execute all papers, execute all divisional, continuing, continuation-in-part, reissue and foreign applications, and make all rightful oaths and declaration relating to the INVENTION, requested by the ROHM AND HAAS COMPANY; and Assignor does hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America and the corresponding official in any foreign country to issue any Letters Patent which may be granted in the United States or foreign country, respectively, to ROHM AND HAAS COMPANY for its sole use and benefit and for its successors and assigns, to the full end of the term or terms for which said Letters Patent may be granted.

Assignor authorizes and requests insertion herein of the Serial Number 10/117,944 and filing date 4/8/02 of said application when officially known.

IN TESTIMONY WHEREOF, Assignor intending to be legally bound has hereunto affixed its signature(s).

7/27/01 Date	LEONARD EDWARD BOGAN, JR.
COMMONWEALTH OF PENNSYLVANIA COUNTY OF MONTGOMERY LEONARD EDWARD BOGAN, JR. personal acknowledged to me that the execution of the free will and deed of this 27 day of July [SEAL]	Anna Marie Devlin, Notary Pub LowerGwynedd Twp., Montgomery Co My Commission Expires Mar. 21, 3 Member, Penneytvania Association of Not lly appeared before me and ne foregoing instrument is an act of 2001.
7/27/01 Date	Notary Public ALEX PAK
COMMONWEALTH OF PENNSYLVANIA COUNTY OF MONTSOMERY ALEX PAK personally appeared before me are execution of the foregoing instrument.	: SS. : ad acknowledged to me that the
execution of the foregoing instrument is an a day of	ct of free will and deed of this 27 Company Notary Public
	Notarial Seal Arma Marie Deviln, Notary Public Lower Gwynedd Twp., Montgornery County

My Commission Expires Mar. 21, 2005

Member, Pennsylvania Association of Notaries

ASSIGNMENT

WHEREAS, LEONARD EDWARD BOGAN, JR. of 1229 Cowpath Road, Hatfield, PA 19440; ALEX PAK of 700 Lower State Road, Building 19, Apt. C4, North Wales, PA 19454 (hereafter Assignor(s)"), invented certain new and useful improvements in HIGH TEMPERATURE MIXING, (hereafter "INVENTION") for which on the date below Assignor executed an application for Letters Patent of the United States of America;

WHEREAS at the time the INVENTION was made, Assignor was under an obligation to assign all right, title and interest in Assignor's INVENTION to ROHM AND HAAS COMPANY, a Delaware corporation having its principal place of business at 100 Independence Mall West, Philadelphia, Pennsylvania, 19106-2399, which wants to formalize the assignment and its ownership of the entire interest in the INVENTION and in any and all applications for patent thereon and in any and all Letters Patent which may be granted thereon;

NOW, THEREFORE, for valuable consideration received by Assignor, receipt and sufficiency of which is hereby acknowledged, Assignor has assigned and by this Assignment does assign to ROHM AND HAAS COMPANY, for the United States of America, its territorial possession, and for all foreign countries, the entire right, title, and interest in and to the INVENTION including the right to apply for patents, or similar protection, including any continuations, divisional, renewal, substitute, reissue or improvement applications, and to claim International Convention priority, in all such foreign countries; Assignor further agrees without further consideration to testify in any proceedings, to execute all papers, execute all divisional, continuing, continuation-in-part, reissue and foreign applications, and make all rightful oaths and declaration relating to the INVENTION, requested by the ROHM AND HAAS COMPANY; and Assignor does hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America and the corresponding official in any foreign country to issue any Letters Patent which may be granted in the United States or foreign country, respectively, to ROHM AND HAAS COMPANY for its sole use and benefit and for its successors and assigns, to the full end of the term or terms for which said Letters Patent may be granted.

Assignor authorizes and requests insertion herein of the Serial Number 10/117,944 and filing date 4/8/02 of said application when officially known.

IN TESTIMONY WHEREOF, Assignor intending to be legally bound has hereunto affixed its signature(s).

7/27/01 Date	LEONARD E	Logon J. EDWARD BOGAN, JR.	
COMMONWEALTH OF PENNSYLVANIA COUNTY OF MONTGOMERY LEONARD EDWARD BOGAN, JR. personal acknowledged to me that the execution of the free will and dead of the 277 to 177 t	: : SS. : ly appeared be	Notarial Seal Anna Marie Deviin, Notary Pub Lower Gwynedd Twp., Montgomery Co My Commission Expires Mar. 21, 3 Member, Penneylvania Association of No	
nee will and need of this 21 day of 100	<u>y</u>	2001.	
[SEAL]	Onna Ma Notary Public		
7/27/01 Date	ALEX PAK		
COMMONWEALTH OF PENNSYLVANIA COUNTY OF MONTGOMERY	: : SS. :		
ALEX PAK personally appeared before me and acknowledged to me that the execution of the foregoing instrument is an act of free will and deed of this 27 day of, 2001.			
[SEAL]	Omno M Notary Public		
·	Anna Ma	Notarial Seal	

Anna Marie Devilin, Notary Public Lower Gwynedd Twp., Montgomery County My Commission Expires Mar. 21, 2005 Member, Pennsylvania Association of Notaries

COPY OF ASSIGNMENT FOR US SER. No. 10/722, 281 US PAT. No. 6,710,207

Docket Number A01105

ASSIGNMENT

WHEREAS, LEONARD EDWARD BOGAN, JR. of 1229 Cowpath Road, Hatfield, PA 19440; SCOTT HAN of 4 Valerie Lane, Lawrenceville, NJ 08648; BRADLEY ANSON JACOBS of 105 Stockton Court, Chalfont, PA 18914; FREDERICK WILLIAM KAISER of 306 Summit Avenue, Fort Washington, PA 19034; PETER DAVID KLUGHERZ of 760 Killdeer Lane, Huntingdon Valley, PA 19006; MANHUA LIN of 1616 Holly Hill Lane, Maple Glen, PA 19002; RICHARD DAVID LINK, III of 58 Lavender Lane, Levittown, PA 19054; and MICHAEL WILLIAM LINSEN of 101 Hancock Road, North Wales, PA 19454 (hereafter Assignor(s)"), invented certain new and useful improvements in METHODS FOR PRODUCING UNSATURATED CARBOXYLIC ACIDS AND UNSATURATED NITRILES, (hereafter "INVENTION") for which on the date below Assignor executed an application for Letters Patent of the United States of America;

WHEREAS at the time the INVENTION was made, Assignor was under an obligation to assign all right, title and interest in Assignor's INVENTION to ROHM AND HAAS COMPANY, a Delaware corporation having its principal place of business at 100 Independence Mall West, Philadelphia, Pennsylvania, 19106-2399, which wants to formalize the assignment and its ownership of the entire interest in the INVENTION and in any and all applications for patent thereon and in any and all Letters Patent which may be granted thereon;

NOW, THEREFORE, for valuable consideration received by Assignor, receipt and sufficiency of which is hereby acknowledged, Assignor has assigned and by this Assignment does assign to ROHM AND HAAS COMPANY, for the United States of America, its territorial possession, and for all foreign countries, the entire right, title, and interest in and to the INVENTION including the right to apply for patents, or similar protection, including any continuations, divisional, renewal, substitute, reissue or improvement applications, and to claim International Convention priority, in all such foreign countries; Assignor further agrees without further consideration to testify in any proceedings, to execute all papers, execute all divisional, continuing, continuation-in-part, reissue and foreign applications, and make all rightful oaths and declaration relating to the INVENTION, requested by the ROHM AND HAAS COMPANY; and Assignor does hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America and the corresponding official in any foreign country to issue any Letters Patent which may be granted in the United States or foreign country, respectively, to ROHM AND HAAS COMPANY for its sole use and benefit and for its successors and assigns, to the full end of the term or terms for which said Letters Patent may be granted.

Assignor authorizes and requests installed officially known.	ertion herein of the Serial Number of said application when
onicially known.	
IN TESTIMONY WHEREOF, Assign hereunto affixed its signature(s). 2/28/01 Date	or intending to be legally bound hat Leonard Edward Bogan, J. LEONARD EDWARD BOGAN, J.
COMMONWEALTH OF PENNSYLVANIA	: : SS.
COUNTY OF Montgonery	:
LEONARD EDWARD BOGAN, JR. personall	ly appeared before me and
acknowledged to me that the execution of the	e foregoing incloument is an a c
free will and deed of this 28 day of Follow	, 2001.
[SEAL] NOTARIAL SEAL PHYLLIS B. WEAVER, Notary Public Lower Gwynedd Twp., Montgomery C My Commission Expires May 10, 200	Notary Public
_ Fd, 28, 2001	~ ~ # 1 · · ·
Date	SCOTT HAN
COMMONWEALTH OF PENNSYLVANIA	:
COUNTY OF Montgomery	: SS.
SCOTT HAN personally appeared before me execution of the foregoing instrument is an adday of February, 2001.	and acknowledged to me that the
[SEAL]	Notary Public
NOTARIAL SEAL PHYLLIS B. WEAVER, Notary Public Lower Gwynedd Twp., Montgomery Co. My Commission Exp.	

February 28, 2001	Faller & ros Tas.
Date	BRADLEY ANSON JACOBS
COMMONWEALTH OF PENNSYLVANIA	· : : SS.
COUNTY OF Montgomery	. ;
to me that the execution of the foregoing in deed of this As day of February	
[SEAL] NOTARIAL SEAL PHYLLIS B. WEAVER, Notary	Photos B. Weaver
My Commission Expires May 1	Ludwich Wellin Karry
Date	FREDERICK WILLIAM KAISER
COMMONWEALTH OF PENNSYLVANIA	: : SS.
COUNTY OF Marghany	:
FREDERICK WILLIAM KAISER personal acknowledged to me that the execution of the free will and deed of this 2 day of	o tomo main militaria
[SEAL] NOTARIAL SEAL PHYLLIS B. WEAVER, Notary Public Lower Gwynedd Twp., Montgomery Co. My Commission Expires May 10, 2001	Notary Public
Manh 8, 200/	Liter David Klughen PETER DAVID KLUGHERZ
COMMONWEALTH OF PENNSYLVANIA	:
COUNTY OF Montgomery	: SS. :
PETER DAVID KLUGHERZ personally appropriate to me that the execution of the foregoing instruded of this day of Management	peared before me and acknowledged rument is an act of free will and 2001.
[SEAL]	Fryllis B. Wear.
PHYLLIS B. WEAVER, Notary Public Lower Gwynedd Twp., Montgomery Commission Expires May 10, 200	Notary Public

3-13-01	-110
Date	RICHARD DAVID LINK, III
COMMONWEALTH OF PENNSYLVANIA COUNTY OF	: : SS. :
RICHARD DAVID LINK, III personally as to me that the execution of the foregoing insideed of this /3th day of Market	ppeared before me and acknowledged strument is an act of free will and , 2001.
[SEAL]	Netary Public NOTARIAL SEAL LINDA L. BURNS, Notary Public Bristol, Bucks County My Commission Expires March 25, 2002
3/8/01 Date	Main William Linsen MICHAEL WILLIAM LINSEN
COMMONWEALTH OF PENNSYLVANIA COUNTY OF MICHAEL WILLIAM LINSEN personally acknowledged to me that the execution of the ree will and deed of this 3 day of Market SEAL	torogoing instrument in

NOTARIAL SEAL
PHYLLIS B. WEAVER, Notary Public
Lower Gwynedd Twp., Montgomery Co.
My Cammission Expires May 10, 2001